

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/004226

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl⁷ F25B9/00, F25B9/14

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl⁷ F25B9/00, F25B9/14

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Jitsuyo Shinan Koho 1926-1996 Toroku Jitsuyo Shinan Koho 1994-2004

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Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	JP 2000-055491 A (Kabushiki Kaisha Idotai Tsushin Sentan Gijutsu Kenkyusho), 25 February, 2000 (25.02.00), Column 3, line 16 to column 6, line 12 (Family: none)	1, 2
X Y	JP 2880154 B1 (Kabushiki Kaisha Idotai Tsushin Sentan Gijutsu Kenkyusho), 29 January, 1999 (29.01.99), Column 5, line 43 to column 7, line 22; column 9, lines 2. to 4 (Family: none)	1, 2 3, 4, 5

☒ Further documents are listed in the continuation of Box C.☐ See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

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"P" document published prior to the international filing date but later than the priority date claimed

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"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"G" document member of the same patent family

Date of the actual completion of the international search
03 June, 2004 (03.06.04)Date of mailing of the international search report
22 June, 2004 (22.06.04)Name and mailing address of the ISA/
Japanese Patent Office

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Facsimile No.

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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X Y	JP 08-313095 A (Toshiba Corp.), 29 November, 1996 (29.11.96), Column 3, line 16 to column 5, line 33 & US 5711157 A	1,2 3,4,5
X	JP 3333776 B2 (LG Electronics Inc.), 26 July, 2002 (26.07.02), Column 6, line 46 to column 7, line 38 (Family: none)	1,2
Y	JP 03-194364 A (Sanyo Electric Co., Ltd.), 26 August, 1991 (26.08.91), Page 2, upper right column, line 6 to page 3, upper left column, line 12 (Family: none)	3,4,5
Y	JP 08-271070 A (Aisin Seiki Co., Ltd.), 18 October, 1996 (18.10.96), Column 2, line 18 to column 3, line 2; Column 4, line 29 to column 6, line 35 (Family: none)	3,4,5
Y	JP 3152757 B2 (Toshiba Corp.), 26 January, 2001 (26.01.01), Column 6, line 44 to column 7, line 43 (Family: none)	3,4,5